ATTORNEY DOCKET NO. 017575.0414

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE $\stackrel{\textstyle \wedge}{\sim}$

In re Application of:

Yue (nmi) Kuo

Serial No.:

09 736,043

Filing Date:

December 12, 2000

Art Unit:

2823

Examiner:

William D. Coleman

Title:

SEMICONDUCTOR CONDUCTIVE PATTERN

FORMATION METHOD

Assistant Commissioner

for Patents

Washington, D.C.

20231

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Applicant respectfully requests, pursuant to the provisions of 37 CFR §§ 1.56, 1.97 and 1.98, that the references listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified application. Copies of these references are enclosed for the convenience of the Examiner. Furthermore, pursuant to 37 C.F.R. §§ 1.97(g) and (h), no representation is made that these references qualify as prior art or are material to the patentability of the present application.

2

Pursuant to 1.97(c) and 1.17(p), the stipulated fee of \$180,00 is enclosed herewith. The Commissioner is hereby authorized to charge any additional fee or credit any overpayment to Deposit Account No. 02-0384 of Baker Botts, L.L.P.

Respectfully submitted. BAKER BOTTS L.L.P. Attorneys for Applicants

Bradley P. Williams Reg. No. 40,227 (214) 953-6447

BAKER BOTTS L.L.P. 2001 Ross Avenue Suite 600 Dallas, TX 75201-2980

Date: _____2002

Enclosures: Form PTO-1449, and one copy of each listed document

Application N 09 [36,043]

Yue (mm) Kuo

Information Disclosure Citation In an Application

017575.0414

12 12 2000

U.S.	PATENT	DOCUM	IENTS
------	--------	-------	-------

DOCUMI	ENT NO. DATE	NAME	CLASS	SUBCLASS	FILING DATE
A			<u> </u>		
В	*				

FOREIGN	PATENT	DOCUMENTS	5

			EIGN PATENT DOCK	CLASS	SUBCLASS	TRANSLATIO	
	DOCUMENT NO.	DATE COUNTRY		CLASS	3CBCEA55	YES	NO
DOCUMENT (Including Author, Title, Source, and Pertinent Pages)				DATE			
<u>(`</u>	"Control Leina Cl. G	ac ac a Sinule Re	eactant," J. Vac. Sci. Techn	ol. B, 15 (2), p. 2	37	19	197
D D	"National Technolog Association (SIA)	gy Roadmap f	for Semiconductors (NT	RS)," Semicono	ductor Industry	.19	197
Е	H. Miyazaki, et al., "(I Vac Sci Tecl	ning with Precise Wafer-ten hnol. B. 15 (2), p. 237				97
F	J.W. Lee, et al., "Cop	per Dry Etching	with Cl ₂ Ar Plasma Chem				98
G	Y. Ohshita, et al., "Le Solid Films, 262, p. 6.	7	re Plasma Etching of Cu U			·	195
Н	G.C. Schwartz et al	"Reactive Ion Et	tching of Copper Films," J.	Electrochem. So	e., 130. p. 1777		183
I	B.J. Howard, et al., "I	Reactive Ion Etcl	hing of Copper in SiC14-b	ased Plasmas," A	xppl. Phys. Leπ.,	19	91
J	M. Markert, et al., "Copper Dry Etching Technique for ULSI Interconnections." Microelectronic Engineering, 35, p. 333				19	197 	
K	IBM Journal of Research and Development, special issue on Plasma Processing, Guest editor, Y. Kuo, 43(12)				19)99	
L	Sangheon Lee, et al., "Process Study of a New Copper Dry Etching Method – The HCL Chemistry," Electrochem. Soc. Plasma Processing XIII Proceedings				20)00	
М	Sangyu Lee, et al., "Amorphous Silicon Thin Film Transistor Fabricated with a New Copper Dry Etching Method," Procs. ECS TFTTV Symp., Phoenix AZ, pp. 34-39)01	
N	Sangheon Lee, et al., "A Reactive Ion Etching Based Copper Etch Process" Thin Film Microelectronics Lab., TAMU, presented on 11/02/99, Dallas, Texas					999 	
O	Yue Kuo, et al., "A Reactive Ion Etching Based Copper Etch Process," AiChE's 1999 Annual Meeting, Reasearch & Development for Results, www.aiche.org					<u>-</u>	
P	Yue Kuo, et al., "Amorphous Silicon Thin-Film Transistors Fabricated with a New Copper Etching Method," Meeting Abstracts of the Electrochemical Society, Abstract No. 762			1	000		
Q	Yue Kuo, et al., "A Novel Plasma-Based Copper Dry Etching Method," Jpn. J. Appl. Phys., Vol. 39, pp. 1488-1490			5 2000			
R	Yue Kuo, et al., "A Joint International Me	uo, et al., "A New Copper Reactive Ion Etching Process," Meeting Abstracts, The 1999 international Meeting, Volume 99-2, Abstract No. 704, Presented October 20, 1999			· 	999	
S	Yue Kuo, et al., "Plasma Process of a New Copper Dry Etching Method," Meeting Abstracts. Toronto, The Electrochemical Society, Volume 2000-1, Abstract No. 296				1	000	
T	Yue Kuo, et al., "A	New Copper 1 99-30 pp 328-3	Dry Etching Process," Th	e Electrochemic			·
Ľ.	Yue Kuo, et al., "[190 Institute of Chemical	0i] – A Reactive Engineers,	Ion Etching Based Copper aperdetail.asp?PaperID=3.			1	999

1	Yue Kuo, et al., 'A Novel Room-Temperature Plasma-Based Copper Fiching Process for VISI.'	96 27 2900
	Paper 72 D i resented in 2000 VLSI Multilevel Inteconnection Conference (VMIC), Santa Clara.	
	California	
\mathcal{M}	Brian Chapman, 'Glow Discharge Processes - Sputtering and Plasma Etching", p. 314	1980
X	Brian Chapman, "Glow Discharge Processes - Sputtering and Plasma Etching", p. 317	1980
FXAMI	NFR DATE CONSIDERED	

EXAMINER Initial if citation considered, whether or not citation is in conformance with MPEP § 609 Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE